

## SEQUENCE LISTING

&lt;110&gt; INCYTE PHARMACEUTICALS, INC.

AU-YOUNG, Janice

LAL, Preeti

BANDMAN, Olga

REDDY, Roopa

BAUGHN, Mariah R.

YUE, Henry

HILLMAN, Jennifer L.

&lt;120&gt; HUMAN CARBOHYDRATE-ASSOCIATED PROTEINS

&lt;130&gt; PF-0604 PCT

&lt;140&gt; To Be Assigned

&lt;141&gt; Herewith

<150> 09/164,785; unassigned; 09/167,179; unassigned; 09/191,838;  
unassigned; 09/205,656; unassigned<151> 1998-10-01; 1998-10-01; 1998-10-06; 1998-10-06; 1998-11-13;  
1998-11-13; 1998-12-03; 1998-12-03

&lt;160&gt; 20

&lt;170&gt; FastSEQ 3.0

&lt;210&gt; 1

&lt;211&gt; 171

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID NO: 714029CD1

&lt;400&gt; 1

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Asp	Gly	His	Leu	Asn	Asn	Ser	Leu	Ser	Ser	Pro	Val	Gln	Ala	Asp
			20						25					30
Val	Tyr	Phe	Pro	Arg	Leu	Ile	Val	Pro	Phe	Cys	Gly	His	Ile	Lys
			35						40					45
Gly	Gly	Met	Arg	Pro	Gly	Lys	Lys	Val	Leu	Val	Met	Gly	Ile	Val
			50						55					60
Asp	Leu	Asn	Pro	Glu	Ser	Phe	Ala	Ile	Ser	Leu	Thr	Cys	Gly	Asp
			65						70					75
Ser	Glu	Asp	Pro	Pro	Ala	Asp	Val	Ala	Ile	Glu	Leu	Lys	Ala	Val
			80						85					90
Phe	Thr	Asp	Arg	Gln	Leu	Leu	Arg	Asn	Ser	Cys	Ile	Ser	Gly	Glu
			95						100					105
Arg	Gly	Glu	Glu	Gln	Ser	Ala	Ile	Pro	Tyr	Phe	Pro	Phe	Ile	Pro
			110						115					120
Asp	Gln	Pro	Phe	Arg	Val	Glu	Ile	Leu	Cys	Glu	His	Pro	Arg	Phe
			125						130					135
Arg	Val	Phe	Val	Asp	Gly	His	Gln	Leu	Phe	Asp	Phe	Tyr	His	Arg

Ile Gln Thr Leu Ser Ala Ile Asp Thr	140	Ile Lys Ile Asn Gly Asp	145	150
Leu Gln Ile Thr Lys Leu	155		160	165
	170			

&lt;210&gt; 2

&lt;211&gt; 666

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID NO: 1450775CD1

&lt;400&gt; 2

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Glu Leu Ser Ser Asn Pro Ala Ala Ser Ala Gly Ala Ser Leu Glu	20	25 30
Pro Pro Ala Ala Pro Ala Pro Gly Glu Asp Asn Pro Ala Gly Ala	35	40 45
Gly Gly Ala Ala Val Ala Gly Ala Ala Gly Gly Ala Arg Arg Phe	50	55 60
Leu Cys Gly Val Val Glu Gly Phe Tyr Gly Arg Pro Trp Val Met	65	70 75
Glu Gln Arg Lys Glu Leu Phe Arg Arg Leu Gln Lys Trp Glu Leu	80	85 90
Asn Thr Tyr Leu Tyr Ala Pro Lys Asp Asp Tyr Lys His Arg Met	95	100 105
Phe Trp Arg Glu Met Tyr Ser Val Glu Glu Ala Glu Gln Leu Met	110	115 120
Thr Leu Ile Ser Ala Ala Arg Glu Tyr Glu Ile Glu Phe Ile Tyr	125	130 135
Ala Ile Ser Pro Gly Leu Asp Ile Thr Phe Ser Asn Pro Lys Glu	140	145 150
Val Ser Thr Leu Lys Arg Lys Leu Asp Gln Val Ser Gln Phe Gly	155	160 165
Cys Arg Ser Phe Ala Leu Leu Phe Asp Asp Ile Asp His Asn Met	170	175 180
Cys Ala Ala Asp Lys Glu Val Phe Ser Ser Phe Ala His Ala Gln	185	190 195
Val Ser Ile Thr Asn Glu Ile Tyr Gln Tyr Leu Gly Glu Pro Glu	200	205 210
Thr Phe Leu Phe Cys Pro Thr Glu Tyr Cys Gly Thr Phe Cys Tyr	215	220 225
Pro Asn Val Ser Gln Ser Pro Tyr Leu Arg Thr Val Gly Glu Lys	230	235 240
Leu Leu Pro Gly Ile Glu Val Leu Trp Thr Gly Pro Lys Val Val	245	250 255
Ser Lys Glu Ile Pro Val Glu Ser Ile Glu Glu Val Ser Lys Ile	260	265 270
Ile Lys Arg Ala Pro Val Ile Trp Asp Asn Ile His Ala Asn Asp	275	280 285
Tyr Asp Gln Lys Arg Leu Phe Leu Gly Pro Tyr Lys Gly Arg Ser	290	295 300
Thr Glu Leu Ile Pro Arg Leu Lys Gly Val Leu Thr Asn Pro Asn		

305	310	315
Cys Glu Phe Glu Ala Asn Tyr Val Ala	Ile His Thr Leu Ala Thr	
320	325	330
Trp Tyr Lys Ser Asn Met Asn Gly Val	Arg Lys Asp Val Val Met	
335	340	345
Thr Asp Ser Glu Asp Ser Thr Val Ser	Ile Gln Ile Lys Leu Glu	
350	355	360
Asn Glu Gly Ser Asp Glu Asp Ile Glu	Thr Asp Val Leu Tyr Ser	
365	370	375
Pro Gln Met Ala Leu Lys Leu Ala Leu	Thr Glu Trp Leu Gln Glu	
380	385	390
Phe Gly Val Pro His Gln Tyr Ser Ser	Arg Gln Val Ala His Ser	
395	400	405
Gly Ala Lys Ala Ser Val Val Asp Gly	Thr Pro Leu Val Ala Ala	
410	415	420
Pro Ser Leu Asn Ala Thr Thr Val Val	Thr Thr Val Tyr Gln Glu	
425	430	435
Pro Ile Met Ser Gln Gly Ala Ala Leu	Ser Gly Glu Pro Thr Thr	
440	445	450
Leu Thr Lys Glu Glu Glu Lys Lys Gln	Pro Asp Glu Glu Pro Met	
455	460	465
Asp Met Val Val Glu Lys Gln Glu Glu	Thr Asp His Lys Asn Asp	
470	475	480
Asn Gln Ile Leu Ser Glu Ile Val Glu	Ala Lys Met Ala Glu Glu	
485	490	495
Leu Lys Pro Met Asp Thr Asp Lys Glu	Ser Ile Ala Glu Ser Lys	
500	505	510
Ser Pro Glu Met Ser Met Gln Glu Asp	Cys Ile Ser Asp Ile Ala	
515	520	525
Pro Met Gln Thr Asp Glu Gln Thr Asn	Lys Glu Gln Phe Val Pro	
530	535	540
Gly Pro Asn Glu Lys Pro Leu Tyr Thr	Ala Glu Pro Val Thr Leu	
545	550	555
Glu Asp Leu Gln Leu Leu Ala Asp Leu	Phe Tyr Leu Pro Tyr Glu	
560	565	570
His Gly Pro Lys Gly Ala Gln Met Leu	Arg Glu Phe Gln Trp Leu	
575	580	585
Arg Ala Asn Ser Ser Val Val Ser Val	Asn Cys Lys Gly Lys Asp	
590	595	600
Ser Glu Lys Ile Glu Glu Trp Arg Ser	Arg Ala Ala Lys Phe Glu	
605	610	615
Glu Met Cys Gly Leu Val Met Gly Met	Phe Thr Arg Leu Ser Asn	
620	625	630
Cys Ala Asn Arg Thr Ile Leu Tyr Asp	Met Tyr Ser Tyr Val Trp	
635	640	645
Asp Ile Lys Ser Ile Met Ser Met Val	Lys Ser Phe Val Gln Trp	
650	655	660
Leu Ala Phe Ala Ala Asn		
665		

&lt;210&gt; 3

&lt;211&gt; 307

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID NO: 3369350CD1

&lt;400&gt; 3

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Ser Ala Ser Trp Met Ser Arg Leu Arg Ala Leu Leu Gly Leu Gly
          20          25          30
Leu Leu Val Ala Gly Ser Arg Leu Pro Arg Ile Lys Ser Gln Thr
          35          40          45
Ile Ala Cys Arg Ser Gly Pro Thr Trp Trp Gly Pro Gln Arg Leu
          50          55          60
Asn Ser Gly Gly Arg Trp Asp Ser Glu Val Met Ala Ser Thr Val
          65          70          75
Val Lys Tyr Leu Ser Gln Glu Glu Ala Gln Ala Val Asp Gln Glu
          80          85          90
Leu Phe Asn Glu Tyr Gln Phe Ser Val Asp Gln Leu Met Glu Leu
          95          100          105
Ala Gly Leu Ser Cys Ala Thr Ala Ile Ala Lys Ala Tyr Pro Pro
          110          115          120
Thr Ser Met Ser Arg Ser Pro Pro Thr Val Leu Val Ile Cys Gly
          125          130          135
Pro Gly Asn Asn Gly Gly Asp Gly Leu Val Cys Ala Arg His Leu
          140          145          150
Lys Leu Phe Gly Tyr Glu Pro Thr Ile Tyr Tyr Pro Lys Arg Pro
          155          160          165
Asn Lys Pro Leu Phe Thr Ala Leu Val Thr Gln Cys Gln Lys Met
          170          175          180
Asp Ile Pro Phe Leu Gly Glu Met Pro Ala Glu Pro Met Thr Ile
          185          190          195
Asp Glu Leu Tyr Glu Leu Val Val Asp Ala Ile Phe Gly Phe Ser
          200          205          210
Phe Lys Gly Asp Val Arg Glu Pro Phe His Ser Ile Leu Ser Val
          215          220          225
Leu Lys Gly Leu Thr Val Pro Ile Ala Ser Ile Asp Ile Pro Ser
          230          235          240
Gly Trp Asp Val Glu Lys Gly Asn Ala Gly Gly Ile Gln Pro Asp
          245          250          255
Leu Leu Ile Ser Leu Thr Ala Pro Lys Lys Ser Ala Thr Gln Phe
          260          265          270
Thr Gly Arg Tyr His Tyr Leu Gly Gly Arg Phe Val Pro Pro Ala
          275          280          285
Leu Glu Lys Lys Tyr Gln Leu Asn Leu Pro Pro Tyr Pro Asp Thr
          290          295          300
Glu Cys Val Tyr Arg Leu Gln
          305

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&lt;210&gt; 4

&lt;211&gt; 402

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID NO: 1648214CD1

&lt;400&gt; 4

Met	Met	Val	Ala	Leu	Arg	Gly	Ala	Ser	Ala	Leu	Leu	Val	Leu	Phe	1	5	10	15
Leu	Ala	Ala	Phe	Leu	Pro	Pro	Pro	Gln	Cys	Ala	Gln	Asp	Pro	Ala	20	25	30	
Met	Val	His	Tyr	Ile	Tyr	Gln	Arg	Phe	Arg	Val	Leu	Glu	Gln	Gly	35	40	45	
Leu	Glu	Lys	Cys	Thr	Gln	Ala	Thr	Arg	Ala	Tyr	Ile	Gln	Glu	Phe	50	55	60	
Gln	Glu	Phe	Ser	Lys	Asn	Ile	Ser	Val	Met	Leu	Gly	Arg	Cys	Gln	65	70	75	
Thr	Tyr	Thr	Ser	Glu	Tyr	Lys	Ser	Ala	Val	Gly	Asn	Leu	Ala	Leu	80	85	90	
Arg	Val	Glu	Arg	Ala	Gln	Arg	Glu	Ile	Asp	Tyr	Ile	Gln	Tyr	Leu	95	100	105	
Arg	Glu	Ala	Asp	Glu	Cys	Ile	Glu	Ser	Glu	Asp	Lys	Thr	Leu	Ala	110	115	120	
Glu	Met	Leu	Leu	Gln	Glu	Ala	Glu	Glu	Glu	Lys	Lys	Ile	Arg	Thr	125	130	135	
Leu	Leu	Asn	Ala	Ser	Cys	Asp	Asn	Met	Leu	Met	Gly	Ile	Lys	Ser	140	145	150	
Leu	Lys	Ile	Val	Lys	Lys	Met	Met	Asp	Thr	His	Gly	Ser	Trp	Met	155	160	165	
Lys	Asp	Ala	Val	Tyr	Asn	Ser	Pro	Lys	Val	Tyr	Leu	Leu	Ile	Gly	170	175	180	
Ser	Arg	Asn	Asn	Thr	Val	Trp	Glu	Phe	Ala	Asn	Ile	Arg	Ala	Phe	185	190	195	
Met	Glu	Asp	Asn	Thr	Lys	Pro	Ala	Pro	Arg	Lys	Gln	Ile	Leu	Thr	200	205	210	
Leu	Ser	Trp	Gln	Gly	Thr	Gly	Gln	Val	Ile	Tyr	Lys	Gly	Phe	Leu	215	220	225	
Phe	Phe	His	Asn	Gln	Ala	Thr	Ser	Asn	Glu	Ile	Ile	Lys	Tyr	Asn	230	235	240	
Leu	Gln	Lys	Arg	Thr	Val	Glu	Asp	Arg	Met	Leu	Leu	Pro	Gly	Gly	245	250	255	
Val	Gly	Arg	Ala	Leu	Val	Tyr	Gln	His	Ser	Pro	Ser	Thr	Tyr	Ile	260	265	270	
Asp	Leu	Ala	Val	Asp	Glu	His	Gly	Leu	Trp	Ala	Ile	His	Ser	Gly	275	280	285	
Pro	Gly	Thr	His	Ser	His	Leu	Val	Leu	Thr	Lys	Ile	Glu	Pro	Gly	290	295	300	
Thr	Leu	Gly	Val	Glu	His	Ser	Trp	Asp	Thr	Pro	Cys	Arg	Ser	Gln	305	310	315	
Asp	Ala	Glu	Ala	Ser	Phe	Leu	Leu	Cys	Gly	Val	Leu	Tyr	Val	Val	320	325	330	
Tyr	Ser	Thr	Gly	Gly	Gln	Gly	Pro	His	Arg	Ile	Thr	Cys	Ile	Tyr	335	340	345	
Asp	Pro	Leu	Gly	Thr	Ile	Ser	Glu	Glu	Asp	Leu	Pro	Asn	Leu	Phe	350	355	360	
Phe	Pro	Lys	Arg	Pro	Arg	Ser	His	Ser	Met	Ile	His	Tyr	Asn	Pro	365	370	375	
Arg	Asp	Lys	Gln	Leu	Tyr	Ala	Trp	Asn	Glu	Gly	Asn	Gln	Ile	Thr	380	385	390	
Tyr	Lys	Leu	Gln	Thr	Lys	Arg	Lys	Leu	Pro	Leu	Lys				395	400		

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<220>  
 <221> misc\_feature  
 <223> Incyte ID NO: 2743295CD1

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 20 25 30  
 Ser Ser Ala Leu Pro Gln Pro Ser Thr Ser Asp Pro Ser Ile Ala  
 35 40 45  
 Asn His Ala Ser Val Gly Pro Thr Leu Gln Thr Thr Ser Val Ser  
 50 55 60  
 Pro Asp Pro Thr Arg Glu Ser Val Leu Gln Pro Ser Pro Gln Val  
 65 70 75  
 Pro Ala Thr Thr Val Ala His Thr Ala Thr Gln Gln Pro Ala Ala  
 80 85 90  
 Pro Ala Pro Pro Ala Val Ser Pro Arg Glu Ala Leu Met Glu Ala  
 95 100 105  
 Met His Thr Val Pro Val Pro Pro Thr Thr Val Arg Thr Asp Ser  
 110 115 120  
 Leu Gly Lys Asp Ala Pro Ala Gly Trp Gly Thr Thr Pro Ala Ser  
 125 130 135  
 Pro Thr Leu Ser Pro Glu Glu Glu Asp Asp Ile Arg Asn Val Ile  
 140 145 150  
 Gly Arg Cys Lys Asp Thr Leu Ser Thr Ile Thr Gly Pro Thr Thr  
 155 160 165  
 Gln Asn Thr Tyr Gly Arg Asn Glu Gly Ala Trp Met Lys Asp Pro  
 170 175 180  
 Leu Ala Lys Asp Glu Arg Ile Tyr Val Thr Asn Tyr Tyr Tyr Gly  
 185 190 195  
 Asn Thr Leu Val Glu Phe Arg Asn Leu Glu Asn Phe Lys Gln Gly  
 200 205 210  
 Arg Trp Ser Asn Ser Tyr Lys Leu Pro Tyr Ser Trp Ile Gly Thr  
 215 220 225  
 Gly His Val Val Tyr Asn Gly Ala Phe Tyr Tyr Asn Arg Ala Phe  
 230 235 240  
 Thr Arg Asn Ile Ile Lys Tyr Asp Leu Lys Gln Arg Tyr Val Ala  
 245 250 255  
 Ala Trp Ala Met Leu His Asp Val Ala Tyr Glu Glu Ala Thr Pro  
 260 265 270  
 Trp Arg Trp Gln Gly His Ser Asp Val Asp Phe Ala Val Asp Glu  
 275 280 285  
 Asn Gly Leu Trp Leu Ile Tyr Pro Ala Leu Asp Asp Glu Gly Phe  
 290 295 300  
 Ser Gln Glu Val Ile Val Leu Ser Lys Leu Asn Ala Ala Asp Leu  
 305 310 315  
 Ser Thr Gln Lys Glu Thr Thr Trp Arg Thr Gly Leu Arg Arg Asn  
 320 325 330  
 Phe Tyr Gly Asn Cys Phe Val Ile Cys Gly Val Leu Tyr Ala Val  
 335 340 345  
 Asp Ser Tyr Asn Gln Arg Asn Ala Asn Ile Ser Tyr Ala Phe Asp

	350		355		360
Thr His Thr Asn	Thr Gln Ile Val Pro	Arg Leu Leu Phe Glu Asn			
	365		370		375
Glu Tyr Ser Tyr	Thr Thr Gln Ile Asp	Tyr Asn Pro Lys Asp Arg			
	380		385		390
Leu Leu Tyr Ala	Trp Asp Asn Gly His	Gln Val Thr Tyr His Val			
	395		400		405
Ile Phe Ala Tyr					

&lt;210&gt; 6

&lt;211&gt; 271

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID NO: 2821011CD1

&lt;400&gt; 6

Met Arg Gly Asn Leu Ala Leu Val Gly Val Leu Ile Ser Leu Ala		
1 5 10 15		
Phe Leu Ser Leu Leu Pro Ser Gly His Pro Gln Pro Ala Gly Asp		
20 25 30		
Asp Ala Cys Ser Val Gln Ile Leu Val Pro Gly Leu Lys Gly Asp		
35 40 45		
Ala Gly Glu Lys Gly Asp Lys Gly Ala Pro Gly Arg Pro Gly Arg		
50 55 60		
Val Gly Pro Thr Gly Glu Lys Gly Asp Met Gly Asp Lys Gly Gln		
65 70 75		
Lys Gly Ser Val Gly Arg His Gly Lys Ile Gly Pro Ile Gly Ser		
80 85 90		
Lys Gly Glu Lys Gly Asp Ser Gly Asp Ile Gly Pro Pro Gly Pro		
95 100 105		
Asn Gly Glu Pro Gly Leu Pro Cys Glu Cys Ser Gln Leu Arg Lys		
110 115 120		
Ala Ile Gly Glu Met Asp Asn Gln Val Ser Gln Leu Thr Ser Glu		
125 130 135		
Leu Lys Phe Ile Lys Asn Ala Val Ala Gly Val Arg Glu Thr Glu		
140 145 150		
Ser Lys Ile Tyr Leu Leu Val Lys Glu Lys Arg Tyr Ala Asp		
155 160 165		
Ala Gln Leu Ser Cys Gln Gly Arg Gly Gly Thr Leu Ser Met Pro		
170 175 180		
Lys Asp Glu Ala Ala Asn Gly Leu Met Ala Ala Tyr Leu Ala Gln		
185 190 195		
Ala Gly Leu Ala Arg Val Phe Ile Gly Ile Asn Asp Leu Glu Lys		
200 205 210		
Glu Gly Ala Phe Val Tyr Ser Asp His Ser Pro Met Arg Thr Phe		
215 220 225		
Asn Lys Trp Arg Ser Gly Glu Pro Asn Asn Ala Tyr Asp Glu Glu		
230 235 240		
Asp Cys Val Glu Met Val Ala Ser Gly Gly Trp Asn Asp Val Ala		
245 250 255		
Cys His Thr Thr Met Tyr Phe Met Cys Glu Phe Asp Lys Glu Asn		
260 265 270		
Met		

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 <213> Homo sapiens

<220>  
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<400> 7

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Phe	Phe	Ser	Val	Ala	Thr	Ser	Gly	Cys	Ser	Ala	Ala	Ala	Ala	Ser	20	25	30	
Ser	Leu	Glu	Met	Leu	Ser	Arg	Glu	Phe	Glu	Thr	Cys	Ala	Phe	Ser	35	40	45	
Phe	Ser	Ser	Leu	Pro	Arg	Ser	Cys	Lys	Glu	Ile	Lys	Glu	Arg	Cys	50	55	60	
His	Ser	Ala	Gly	Asp	Gly	Leu	Tyr	Phe	Leu	Arg	Thr	Lys	Asn	Gly	65	70	75	
Val	Val	Tyr	Gln	Thr	Phe	Cys	Asp	Met	Thr	Ser	Gly	Gly	Gly	Gly	80	85	90	
Trp	Thr	Leu	Val	Ala	Ser	Val	His	Glu	Asn	Asp	Met	His	Gly	Lys	95	100	105	
Cys	Thr	Val	Gly	Asp	Arg	Trp	Ser	Ser	Gln	Gln	Gly	Asn	Lys	Ala	110	115	120	
Asp	Tyr	Pro	Glu	Gly	Asp	Gly	Asn	Trp	Ala	Asn	Tyr	Asn	Thr	Phe	125	130	135	
Gly	Ser	Ala	Glu	Ala	Ala	Thr	Ser	Asp	Asp	Tyr	Lys	Asn	Pro	Gly	140	145	150	
Tyr	Tyr	Asp	Ile	Gln	Ala	Lys	Asp	Leu	Gly	Ile	Trp	His	Val	Pro	155	160	165	
Asn	Lys	Ser	Pro	Met	Gln	His	Trp	Arg	Asn	Ser	Ala	Leu	Leu	Arg	170	175	180	
Tyr	Arg	Thr	Asn	Thr	Gly	Phe	Leu	Gln	Arg	Leu	Gly	His	Asn	Leu	185	190	195	
Phe	Gly	Ile	Tyr	Gln	Lys	Tyr	Pro	Val	Lys	Tyr	Arg	Ser	Gly	Lys	200	205	210	
Cys	Trp	Asn	Asp	Asn	Gly	Pro	Ala	Ile	Pro	Val	Val	Tyr	Asp	Phe	215	220	225	
Gly	Asp	Ala	Lys	Lys	Thr	Ala	Ser	Tyr	Tyr	Ser	Pro	Tyr	Gly	Gln	230	235	240	
Arg	Glu	Phe	Val	Ala	Gly	Phe	Val	Gln	Phe	Arg	Val	Phe	Asn	Asn	245	250	255	
Glu	Arg	Ala	Ala	Asn	Ala	Leu	Cys	Ala	Gly	Ile	Lys	Val	Thr	Gly	260	265	270	
Cys	Asn	Thr	Glu	His	His	Cys	Ile	Gly	Gly	Gly	Gly	Phe	Phe	Pro	275	280	285	
Gln	Gly	Lys	Pro	Arg	Gln	Cys	Gly	Asp	Phe	Ser	Ala	Phe	Asp	Trp	290	295	300	
Asp	Gly	Tyr	Gly	Thr	His	Val	Lys	Ser	Ser	Cys	Ser	Arg	Glu	Ile	305	310	315	
Thr	Glu	Ala	Ala	Val	Leu	Leu	Phe	Tyr	Arg						320	325		



<210> 8  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 ttcaagcggga cgtgtacttc ccacgactga tagttccatt ttgtgggcac attaaagggtg 180  
 gcatgagacc aggcaagaag gtgttagtga tgggcatcgt agacctcaac ccagagagct 240  
 ttgcaatcag cttgacctgt ggggactcag aagaccctcc tgccgatgtg gcaatcgaac 300  
 tcaaagctgt gttcacagat cggcagctac tcagaaattc ttgtatatct ggggagagggtg 360  
 gtgaagaaca gtcagcaatc ccttactttc cattcattcc agaccagcca ttcagggttg 420  
 aaattctttg tgagcaccca cgtttccgag tgtttggtga tggacaccaa ctttttgatt 480  
 tttaccatcg cattcaaacg ttatctgcaa ttgacaccat aaagataaat ggagacctcc 540  
 agatcaccaa gcttggtcga tttaaaccac ctctatttca aataggatca cgtgccacaa 600  
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 caaaaacaaa tggcaagttt cacttaaggg tggtttgcct ttaagaagaa agctgttggg 720  
 acaaagacac cgagccatta taccagaat aaaataatac atttatgctg gattttattc 780  
 agaccaaact aaaatggatt tgtgatgatt tgtgatcttg tagcaatta ttcattcttt 840  
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 ggtacagtga aatcaatgca tttctgcact aagtggaat tgtgtagcac aaccaatatt 960  
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 ttacaattat gaaacaggtg aatttctgct ttaaagaatt gagattctcc ataccctaa 1260  
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 aatgcagtgt aaagcagaag caaacggccc tgaataactt acttggaagt aatttatatc 1620  
 aacttaagct gttagctcat tgtataactt ttcttatgtg accctcacca atatccctaa 1680  
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 actcccagga ctccaggtct ttgaatccag ccagtagagt gaatgcttc aattaagctg 1860  
 taggtgttac cctgcactta cggaactgat caaacaggtg actccaacag gaggttgacg 1920  
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&lt;210&gt; 9

&lt;211&gt; 2351

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID NO: 1450775CB1

&lt;400&gt; 9

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&lt;211&gt; 1195

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID NO: 3369350CB1

&lt;400&gt; 10

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&lt;210&gt; 11

&lt;211&gt; 2235

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID NO: 1648214CB1

&lt;400&gt; 11

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<220>  
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 <223> Incyte ID NO:2743295CB1

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<220>  
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 <212> DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID NO: 2921920CB1

&lt;400&gt; 14

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&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;300&gt;

&lt;308&gt; g2810994

&lt;400&gt; 15

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 35          40          45
Gln Val Asp Leu Gln Asn Gly Ser Ser Val Lys Pro Arg Ala Asp
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Val Ala Phe His Phe Asn Pro Arg Phe Lys Arg Ala Gly Cys Ile
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Ser	Leu	Glu	Tyr	Lys	His	Arg	Phe	Lys	Glu	Leu	Ser	Ser	Ile	Asp
				290					295					300
Thr	Leu	Glu	Ile	Asn	Gly	Asp	Ile	His	Leu	Leu	Glu	Val	Arg	Ser
				305					310					315

Trp

<210> 16  
 <211> 1042  
 <212> PRT  
 <213> Clostridium perfringens

<300>  
 <308> g144861

<400> 16

Met	Asn	Lys	Asn	Ile	Arg	Lys	Ile	Ile	Thr	Ser	Thr	Val	Leu	Ala
1				5					10					15
Ala	Met	Thr	Ile	Ser	Val	Leu	Pro	Ser	Asn	Leu	Val	Val	Phe	Ala
				20					25					30
Thr	Asp	Gly	Ile	Thr	Glu	Asn	Phe	Tyr	Glu	Ile	Tyr	Pro	Lys	Pro
				35					40					45
Gln	Glu	Ile	Ser	Tyr	Ser	Gly	Gly	Glu	Phe	Gln	Ile	Ser	Asp	Glu
				50					55					60
Ile	Asn	Ile	Val	Tyr	Asp	Asp	Gly	Ile	Asp	Thr	Tyr	Thr	Lys	Lys
				65					70					75
Arg	Val	Asp	Glu	Val	Leu	Glu	Ala	Ser	Asn	Leu	Glu	Ala	Thr	Val
				80					85					90
Ser	Asn	Glu	Ile	Val	Pro	Gly	Lys	Thr	Asn	Phe	Leu	Val	Gly	Ile
				95					100					105
Asn	Glu	Ser	Gly	Gly	Val	Val	Asp	Asn	Tyr	Phe	Asn	Lys	Asn	Ile
				110					115					120
Pro	His	Asp	Glu	Ser	Phe	Phe	Asp	Glu	Lys	Met	Asp	Ala	Asn	Ile
				125					130					135
Val	Ser	Val	Lys	Asp	Gly	Val	Ile	Gly	Val	Ile	Ala	Glu	Asp	Thr
				140					145					150

Asp Ser Ala Phe Tyr Gly Val Thr Thr	Leu Lys His Val Phe Asn	155	160	165
Gln Leu Glu Glu Gly Asn Glu Ile Lys	Asn Phe Arg Ala Asp Asp	170	175	180
Tyr Ala Glu Val Ala His Arg Gly Phe	Ile Glu Gly Tyr Tyr Gly	185	190	195
Asn Pro Trp Ser Asn Glu Asp Arg Ala	Glu Leu Met Lys Phe Gly	200	205	210
Gly Asp Tyr Lys Leu Asn Gln Tyr Val	Phe Ala Pro Lys Asp Asp	215	220	225
Pro Tyr His Asn Ser Lys Trp Arg Asp	Leu Tyr Pro Glu Glu Lys	230	235	240
Leu Ser Glu Ile Lys Lys Leu Ala Gln	Met Gly Asn Glu Thr Lys	245	250	255
Asn Arg Tyr Val Tyr Ala Leu His Pro	Phe Met Asn Asn Pro Val	260	265	270
Arg Phe Asp Thr Glu Glu Asn Tyr Gln	Asn Asp Leu Gly Val Ile	275	280	285
Lys Ala Lys Phe Thr Gln Leu Leu Glu	Asn Asp Val Arg Gln Phe	290	295	300
Ala Ile Leu Ala Asp Asp Ala Ser Ala	Pro Ala Gln Gly Ala Ser	305	310	315
Met Tyr Val Lys Leu Leu Thr Asp Leu	Thr Arg Trp Leu Glu Glu	320	325	330
Gln Gln Ser Thr Tyr Pro Asp Leu Lys	Thr Asp Leu Met Phe Cys	335	340	345
Pro Ser Asp Tyr Tyr Gly Asn Gly Ser	Ser Ala Gln Leu Lys Glu	350	355	360
Leu Asn Lys Ala Glu Asp Asn Val Ser	Ile Val Met Thr Gly Gly	365	370	375
Arg Ile Trp Gly Glu Val Asp Glu Asn	Phe Ala Asn Asn Phe Met	380	385	390
Asn Asn Ile Ser Thr Glu Gly His Pro	Gly Arg Ala Pro Phe Phe	395	400	405
Trp Ile Asn Trp Pro Cys Ser Asp Asn	Ser Lys Gln His Leu Ile	410	415	420
Met Gly Gly Asn Asp Thr Phe Leu His	Pro Gly Val Asp Pro Ser	425	430	435
Lys Ile Asp Gly Ile Val Leu Asn Pro	Met Gln Gln Ala Glu Ala	440	445	450
Asn Lys Ser Ala Leu Phe Ala Ile Ala	Asp Tyr Ala Trp Asn Ile	455	460	465
Trp Asp Asn Lys Glu Glu Ala Asp Glu	Asn Trp Asn Asp Ser Phe	470	475	480
Lys Tyr Met Asp His Gly Thr Ala Glu	Glu Thr Asn Ser Ser Leu	485	490	495
Ala Leu Arg Glu Ile Ser Lys His Met	Ile Asn Gln Asn Met Asp	500	505	510
Gly Arg Val Arg Pro Leu Gln Glu Ser	Val Glu Leu Ala Pro Lys	515	520	525
Leu Glu Ala Phe Lys Gln Lys Tyr Asp	Ser Gly Ala Ser Ile Lys	530	535	540
Glu Asp Ala Leu Glu Leu Ile Glu Glu	Phe Thr Asn Leu Gln Lys	545	550	555
Ala Ala Glu Tyr Tyr Lys Asn Asn Pro	Gly Asn Glu Arg Thr Arg	560	565	570
Asp Gln Ile Ile Tyr Trp Leu Asn Cys	Trp Glu Asp Thr Met Asp			



Ala Ala Ile Gly Tyr Leu Lys Ser Ala	575	Ile Ala Ile Glu Glu Gly	580	585
590	595	600		
Asp Asp Glu Ala Ala Trp Ala Asn Tyr	605	Ser Glu Ala Gln Ser Ala	610	615
Phe Glu Lys Ser Lys Thr Tyr Gly Phe	620	His Tyr Val Asp His Thr	625	630
Glu Tyr Ala Glu Val Gly Val Gln His	635	Ile Val Pro Phe Ile Lys	640	645
Ser Met Gly Gln Asn Leu Ser Val Val	650	Ile Gly Ser Ile Val Asp	655	660
Pro Asn Arg Ile Ile Ala Thr Tyr Ile	665	Ser Asn Arg Gln Asp Ala	670	675
Pro Thr Gly Asn Pro Asp Asn Ile Phe	680	Asp Asn Asn Ala Ser Thr	685	690
Glu Leu Val Tyr Lys Asn Pro Asn Arg	695	Ile Asp Val Gly Thr Tyr	700	705
Val Gly Val Lys Tyr Ser Asn Pro Ile	710	Thr Leu Asn Asn Val Glu	715	720
Phe Leu Met Gly Ala Asn Ser Asn Pro	725	Asn Asp Thr Met Gln Lys	730	735
Ala Lys Ile Gln Tyr Thr Val Asp Gly	740	Arg Glu Trp Ile Asp Leu	745	750
Glu Glu Gly Val Glu Tyr Thr Met Pro	755	Gly Ala Ile Lys Val Glu	760	765
Asn Leu Asp Leu Lys Val Arg Gly Val	770	Arg Leu Ile Ala Thr Glu	775	780
Ala Arg Glu Asn Thr Trp Leu Gly Val	785	Arg Asp Ile Asn Val Asn	790	795
Lys Lys Glu Asp Ser Asn Ser Gly Val	800	Glu Phe Asn Pro Ser Leu	805	810
Ile Arg Ser Glu Ser Trp Gln Val Tyr	815	Glu Gly Asn Glu Ala Asn	820	825
Leu Leu Asp Gly Asp Asp Asn Thr Gly	830	Val Trp Tyr Lys Thr Leu	835	840
Asn Gly Asp Thr Ser Leu Ala Gly Glu	845	Phe Ile Gly Leu Asp Leu	850	855
Gly Lys Glu Ile Lys Leu Asp Gly Ile	860	Arg Phe Val Ile Gly Lys	865	870
Asn Gly Gly Gly Ser Ser Asp Lys Trp	875	Asn Lys Phe Lys Leu Glu	880	885
Tyr Ser Leu Asp Asn Glu Ser Trp Thr	890	Thr Ile Lys Glu Tyr Asp	895	900
Lys Thr Gly Ala Pro Ala Gly Lys Asp	905	Val Ile Glu Glu Ser Phe	910	915
Glu Thr Pro Ile Ser Ala Lys Tyr Ile	920	Arg Leu Thr Asn Met Glu	925	930
Asn Ile Asn Lys Trp Leu Thr Phe Ser	935	Glu Phe Ala Ile Val Ser	940	945
Asp Glu Leu Glu Ser Ala Gly Asn Lys	950	Glu Asn Val Tyr Thr Asn	955	960
Thr Glu Leu Asp Leu Leu Ser Leu Ala	965	Lys Glu Asp Val Thr Lys	970	975
Leu Ile Pro Ile Asp Asp Leu Ser Leu	980	Asn His Gly Glu Tyr Ile	985	990
Gly Val Lys Leu Asn Arg Ile Lys Asp	995	Leu Ser Asn Ile Asn Leu	1000	1005

Glu Ile Ser Asn Asp Thr Gly Leu Lys Leu Gln Ser Ser Met Asn  
 1010 1015 1020

Gly Val Glu Trp Thr Glu Ile Thr Asp Lys Asn Thr Leu Glu Asp  
 1025 1030 1035

Gly Arg Tyr Val Arg Leu Phe  
 1040

<210> 17  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<300>  
 <308> g1247124

<400> 17  
 Gly Pro Thr Val Leu Val Ile Cys Gly Pro Gly Asn Asn Gly Gly  
 1 5 10 15  
 Asp Gly Leu Val Cys Ala Arg His Leu Lys Leu Phe Gly Tyr Glu  
 20 25 30  
 Pro Thr Ile Tyr Tyr Pro Lys Arg Pro Asn Lys Pro Leu Phe Thr  
 35 40 45  
 Ala Leu Val Thr Gln Cys Gln Lys Met Asp Ile Pro Phe Leu Gly  
 50 55 60  
 Glu Met Pro Ala Glu Pro Met Thr Ile Asp Glu Leu Tyr Glu Leu  
 65 70 75  
 Val Val Asp Ala Ile Phe Gly Phe Ser Phe Lys Gly Asp Val Arg  
 80 85 90  
 Glu Pro Phe His Val Pro Ser  
 95

<210> 18  
 <211> 457  
 <212> PRT  
 <213> Rattus norvegicus

<300>  
 <308> g442368

<400> 18  
 Met Gln Pro Ala Arg Lys Leu Leu Ser Leu Leu Val Leu Leu Val  
 1 5 10 15  
 Met Gly Thr Glu Leu Thr Gln Val Leu Pro Thr Asn Pro Glu Glu  
 20 25 30  
 Ser Trp Gln Val Tyr Ser Ser Ala Gln Asp Ser Glu Gly Arg Cys  
 35 40 45  
 Ile Cys Thr Val Val Ala Pro Gln Gln Thr Met Cys Ser Arg Asp  
 50 55 60  
 Ala Arg Thr Lys Gln Leu Arg Gln Leu Leu Glu Lys Val Gln Asn  
 65 70 75  
 Met Ser Gln Ser Ile Glu Val Leu Asp Arg Arg Thr Gln Arg Asp  
 80 85 90  
 Leu Gln Tyr Val Glu Lys Met Glu Asn Gln Met Lys Gly Leu Glu

	95		100		105
Ser Lys Phe Arg Gln Val Glu Glu Ser		His Lys Gln His Leu Ala			
	110		115		120
Arg Gln Phe Lys Ala Ile Lys Ala Lys		Met Asp Glu Leu Arg Pro			
	125		130		135
Leu Ile Pro Val Leu Glu Glu Tyr Lys		Ala Asp Ala Lys Leu Val			
	140		145		150
Leu Gln Phe Lys Glu Glu Val Gln Asn		Leu Thr Ser Val Leu Asn			
	155		160		165
Glu Leu Gln Glu Glu Ile Gly Ala Tyr		Asp Tyr Asp Glu Leu Gln			
	170		175		180
Ser Arg Val Ser Asn Leu Glu Glu Arg		Leu Arg Ala Cys Met Gln			
	185		190		195
Lys Leu Ala Cys Gly Lys Leu Thr Gly		Ile Ser Asp Pro Val Thr			
	200		205		210
Val Lys Thr Ser Gly Ser Arg Phe Gly		Ser Trp Met Thr Asp Pro			
	215		220		225
Leu Ala Pro Glu Gly Asp Asn Arg Val		Trp Tyr Met Asp Gly Tyr			
	230		235		240
His Asn Asn Arg Phe Val Arg Glu Tyr		Lys Ser Met Val Asp Phe			
	245		250		255
Met Asn Thr Asp Asn Phe Thr Ser His		Arg Leu Pro His Pro Trp			
	260		265		270
Ser Gly Thr Gly Gln Val Val Tyr Asn		Gly Ser Ile Tyr Phe Asn			
	275		280		285
Lys Phe Gln Ser His Ile Ile Ile Arg		Phe Asp Leu Lys Thr Glu			
	290		295		300
Thr Ile Leu Lys Thr Arg Ser Leu Asp		Tyr Ala Gly Tyr Asn Asn			
	305		310		315
Met Tyr His Tyr Ala Trp Gly Gly His		Ser Asp Ile Asp Leu Met			
	320		325		330
Val Asp Glu Asn Gly Leu Trp Ala Val		Tyr Ala Thr Asn Gln Asn			
	335		340		345
Ala Gly Asn Ile Val Ile Ser Lys Leu		Asp Pro Val Ser Leu Gln			
	350		355		360
Ile Leu Gln Thr Trp Asn Thr Ser Tyr		Pro Lys Arg Ser Ala Gly			
	365		370		375
Glu Ala Phe Ile Ile Cys Gly Thr Leu		Tyr Val Thr Asn Gly Tyr			
	380		385		390
Ser Gly Gly Thr Lys Val His Tyr Ala		Tyr Gln Thr Asn Ala Ser			
	395		400		405
Thr Tyr Glu Tyr Ile Asp Ile Pro Phe		Gln Asn Lys Tyr Ser His			
	410		415		420
Ile Ser Met Leu Asp Tyr Asn Pro Lys		Asp Arg Ala Leu Tyr Ala			
	425		430		435
Trp Asn Asn Gly His Gln Thr Leu Tyr		Asn Val Thr Leu Phe His			
	440		445		450
Val Ile Arg Ser Asp Glu Leu					
	455				

&lt;210&gt; 19

&lt;211&gt; 369

&lt;212&gt; PRT

&lt;213&gt; Bos taurus

&lt;300&gt;

&lt;308&gt; g415939

&lt;400&gt; 19

Met	Leu	Leu	Leu	Pro	Leu	Ser	Val	Leu	Leu	Leu	Leu	Thr	Gln	Pro	1	5	10	15
Trp	Arg	Ser	Leu	Gly	Ala	Glu	Met	Lys	Ile	Tyr	Ser	Gln	Lys	Thr	20	25	30	
Met	Ala	Asn	Ala	Cys	Thr	Leu	Val	Met	Cys	Ser	Pro	Pro	Glu	Asp	35	40	45	
Gly	Leu	Pro	Gly	Arg	Asp	Gly	Arg	Asp	Gly	Arg	Glu	Gly	Pro	Arg	50	55	60	
Gly	Glu	Lys	Gly	Asp	Pro	Gly	Ser	Pro	Gly	Pro	Ala	Gly	Arg	Ala	65	70	75	
Gly	Met	Pro	Gly	Pro	Ala	Gly	Pro	Ile	Gly	Leu	Lys	Gly	Asp	Asn	80	85	90	
Gly	Ser	Ala	Gly	Glu	Pro	Gly	Pro	Lys	Gly	Asp	Thr	Gly	Pro	Pro	95	100	105	
Gly	Pro	Pro	Gly	Met	Pro	Gly	Pro	Ala	Gly	Arg	Glu	Gly	Pro	Ser	110	115	120	
Gly	Lys	Gln	Gly	Ser	Met	Gly	Pro	Pro	Gly	Thr	Pro	Gly	Pro	Lys	125	130	135	
Gly	Asp	Thr	Gly	Pro	Lys	Gly	Gly	Val	Gly	Ala	Pro	Gly	Ile	Gln	140	145	150	
Gly	Ser	Pro	Gly	Pro	Ala	Gly	Leu	Lys	Gly	Glu	Arg	Gly	Ala	Pro	155	160	165	
Gly	Glu	Pro	Gly	Ala	Pro	Gly	Arg	Ala	Gly	Ala	Pro	Gly	Pro	Ala	170	175	180	
Gly	Ala	Ile	Gly	Pro	Gln	Gly	Pro	Ser	Gly	Ala	Arg	Gly	Pro	Pro	185	190	195	
Gly	Leu	Lys	Gly	Asp	Arg	Gly	Thr	Pro	Gly	Glu	Arg	Gly	Ala	Lys	200	205	210	
Gly	Glu	Ser	Gly	Leu	Ala	Glu	Val	Asn	Ala	Leu	Arg	Gln	Arg	Val	215	220	225	
Gly	Ile	Leu	Glu	Gly	Gln	Leu	Gln	Arg	Leu	Gln	Asn	Ala	Phe	Ser	230	235	240	
Gln	Tyr	Lys	Lys	Ala	Met	Leu	Phe	Pro	Asn	Gly	Arg	Ser	Val	Gly	245	250	255	
Glu	Lys	Ile	Phe	Lys	Thr	Val	Gly	Ser	Glu	Lys	Thr	Phe	Gln	Asp	260	265	270	
Ala	Gln	Gln	Ile	Cys	Thr	Gln	Ala	Gly	Gly	Gln	Leu	Pro	Ser	Pro	275	280	285	
Arg	Ser	Gly	Ala	Glu	Asn	Glu	Ala	Leu	Thr	Gln	Leu	Ala	Thr	Ala	290	295	300	
Gln	Asn	Lys	Ala	Ala	Phe	Leu	Ser	Met	Ser	Asp	Thr	Arg	Lys	Glu	305	310	315	
Gly	Thr	Phe	Ile	Tyr	Pro	Thr	Gly	Glu	Pro	Leu	Val	Tyr	Ser	Asn	320	325	330	
Trp	Ala	Pro	Gln	Glu	Pro	Asn	Asn	Asp	Gly	Gly	Ser	Glu	Asn	Cys	335	340	345	
Val	Glu	Ile	Phe	Pro	Asn	Gly	Lys	Trp	Asn	Asp	Lys	Val	Cys	Gly	350	355	360	
Glu	Gln	Arg	Leu	Val	Ile	Cys	Glu	Phe							365			

<210> 20  
 <211> 313  
 <212> PRT  
 <213> Mus musculus

<300>  
 <308> g3357909

<400> 20  
 Met Thr Gln Leu Gly Phe Leu Leu Phe Ile Met Val Ala Thr Arg  
   1                  5                  10                  15  
 Gly Cys Ser Ala Ala Glu Glu Asn Leu Asp Thr Asn Arg Trp Gly  
                   20                  25                  30  
 Asn Ser Phe Phe Ser Ser Leu Pro Arg Ser Cys Lys Glu Ile Lys  
                   35                  40                  45  
 Gln Glu His Thr Lys Ala Gln Asp Gly Leu Tyr Phe Leu Arg Thr  
                   50                  55                  60  
 Lys Asn Gly Val Ile Tyr Gln Thr Phe Cys Asp Met Thr Thr Ala  
                   65                  70                  75  
 Gly Gly Gly Trp Thr Leu Val Ala Ser Val His Glu Asn Asn Met  
                   80                  85                  90  
 Arg Gly Lys Cys Thr Val Gly Asp Arg Trp Ser Ser Gln Gln Gly  
                   95                  100                 105  
 Asn Arg Ala Asp Tyr Pro Glu Gly Asp Gly Asn Trp Ala Asn Tyr  
                  110                 115                 120  
 Asn Thr Phe Gly Ser Ala Glu Ala Ala Thr Ser Asp Asp Tyr Lys  
                  125                 130                 135  
 Asn Pro Gly Tyr Phe Asp Ile Gln Ala Glu Asn Leu Gly Ile Trp  
                  140                 145                 150  
 His Val Pro Asn Lys Ser Pro Leu His Asn Trp Arg Lys Ser Ser  
                  155                 160                 165  
 Leu Leu Arg Tyr Arg Thr Phe Thr Gly Phe Leu Gln His Leu Gly  
                  170                 175                 180  
 His Asn Leu Phe Gly Leu Tyr Lys Lys Tyr Pro Val Lys Tyr Gly  
                  185                 190                 195  
 Glu Gly Lys Cys Trp Thr Asp Asn Gly Pro Ala Leu Pro Val Val  
                  200                 205                 210  
 Tyr Asp Phe Gly Asp Ala Arg Lys Thr Ala Ser Tyr Tyr Ser Pro  
                  215                 220                 225  
 Ser Gly Gln Arg Glu Phe Thr Ala Gly Tyr Val Gln Phe Arg Val  
                  230                 235                 240  
 Phe Asn Asn Glu Arg Ala Ala Ser Ala Leu Cys Ala Gly Val Arg  
                  245                 250                 255  
 Val Thr Gly Cys Asn Thr Glu His His Cys Ile Gly Gly Gly Gly  
                  260                 265                 270  
 Phe Phe Pro Glu Gly Asn Pro Val Gln Cys Gly Asp Phe Ala Ser  
                  275                 280                 285  
 Phe Asp Trp Asp Gly Tyr Gly Thr His Asn Gly Tyr Ser Ser Ser  
                  290                 295                 300  
 Arg Lys Ile Thr Glu Ala Ala Val Leu Leu Phe Tyr Arg  
                  305                 310